

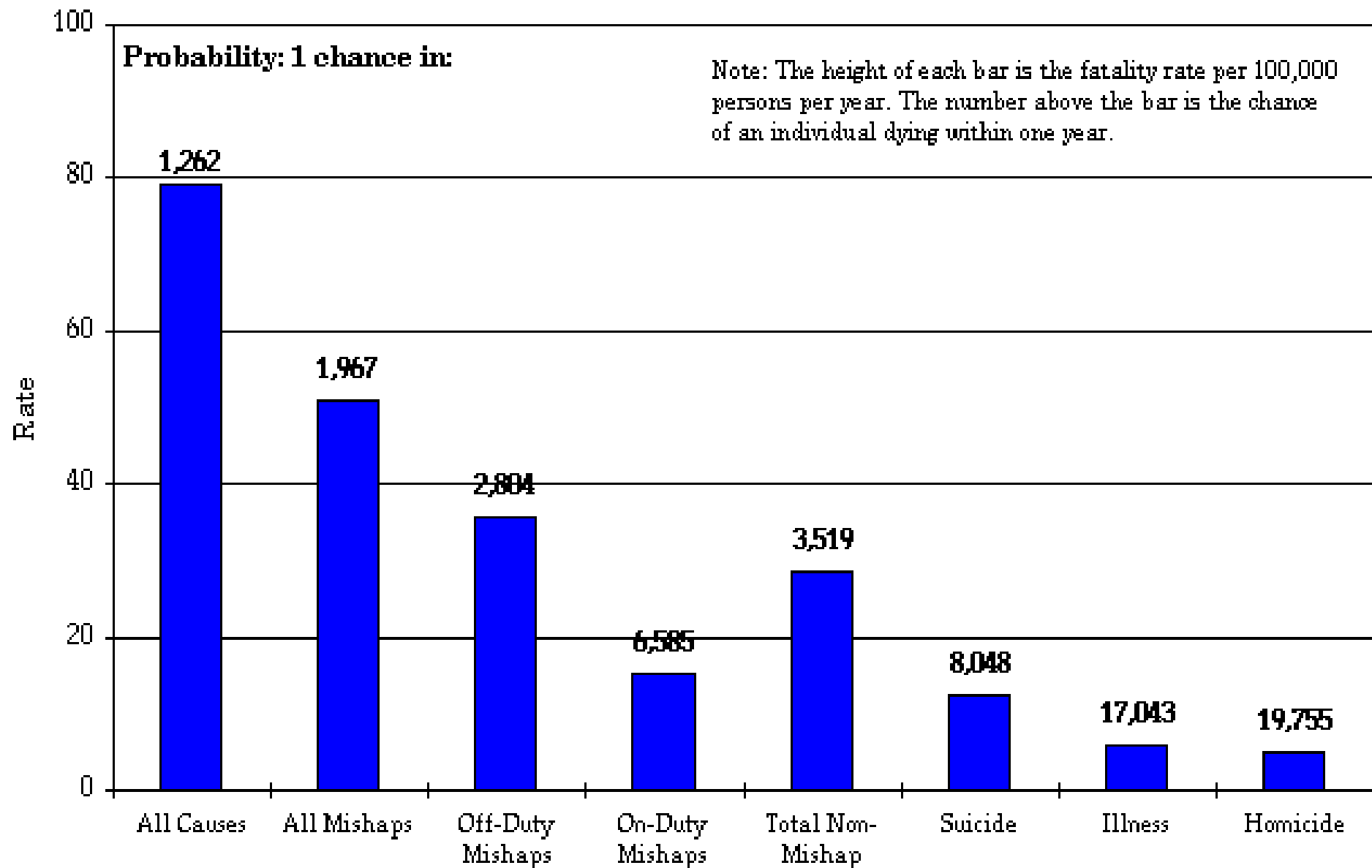


# Traffic Safety Programs

**Lynn Blevins**  
**Naval Safety Center**

# Your Probability of Dying This Year

## Marine Military Personnel



# ***Marine Corps***

## **Your Probability of Dying This Year**

**Mishaps: 1 - 1,967**

**Off Duty: 1 - 2,804**

**On Duty: 1 - 6,585**

**Non-Mishaps: 1 - 4,282**

**Suicide: 1 - 8,048**

**Illness: 1 - 17,043**

**Homicide: 1 - 19,755**

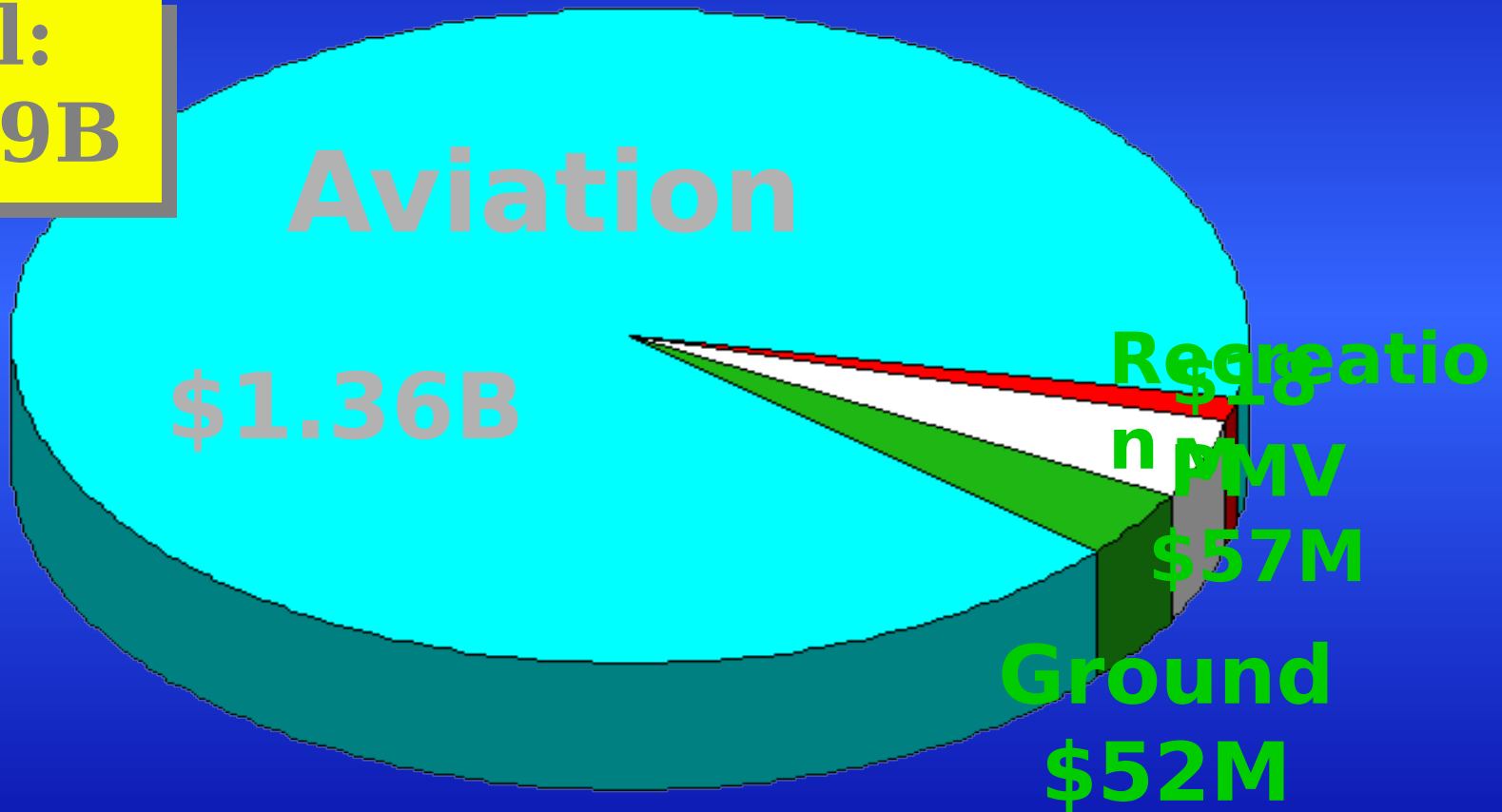
**Winning the Lottery: 1 - 7,059,052**

**6003M2**

# Cost of Mishaps

## Marine Corps, FY96-00

**Total:**  
**\$1.49B**



# How People Died in Mishaps

## Marine Corps, FY96-00

Deaths:

FY 00: 110

FY 96-00: 463

**Traffic 59%**

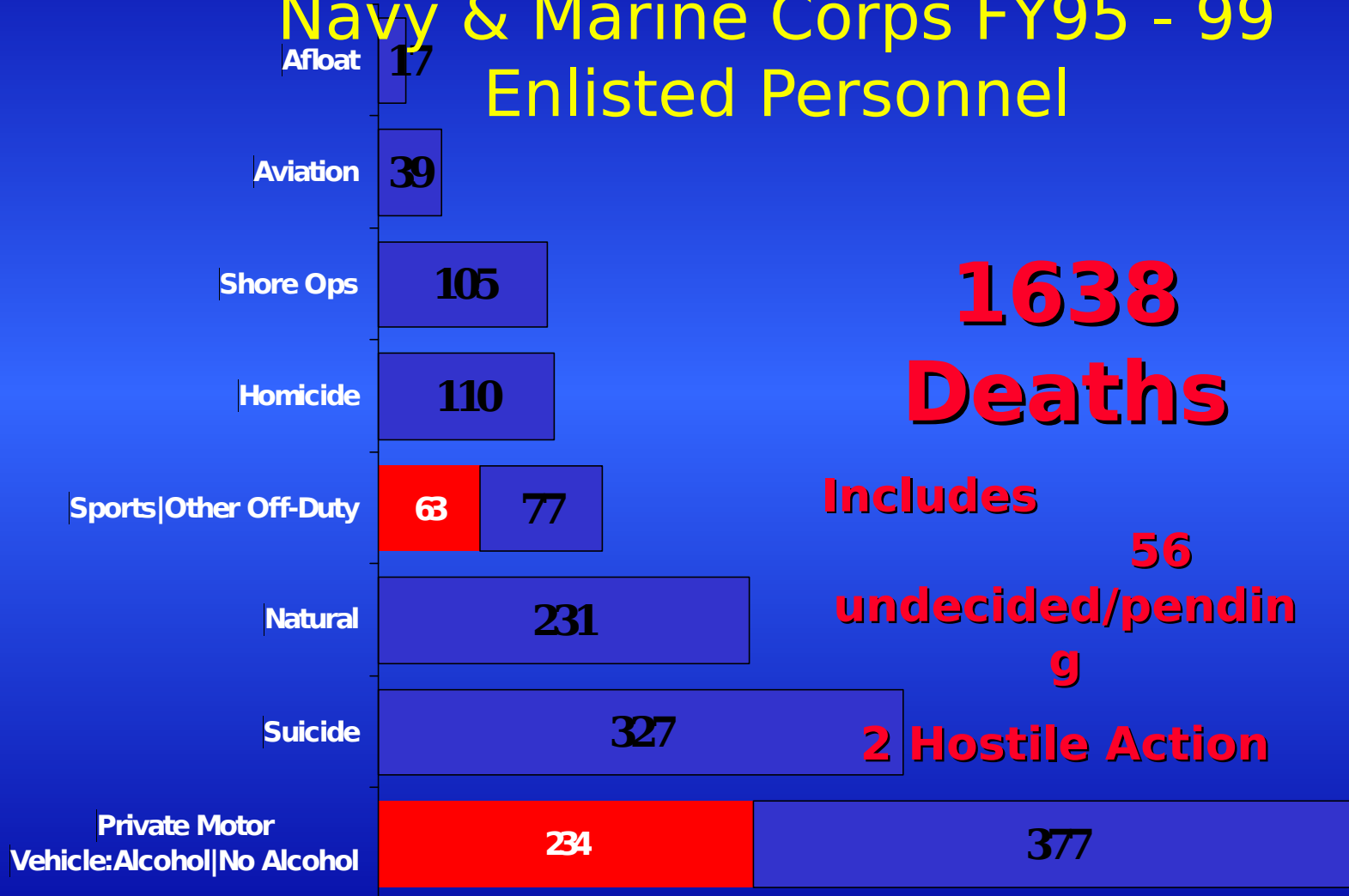
**Recreation  
9%**

**Aviation 19%**

**Ground 14%**

# Top Causes of Death

Navy & Marine Corps FY95 - 99  
Enlisted Personnel



# Top Causes of Death

Navy & Marine Corps FY95 - 99  
Officers



# HOW WE LOST A PLATOON OF MARINES

Rank	Age	Day	Hour	Vehicle	Seatbelt/ Helmet	Alcohol	State	Sex	Fatigue	Speed
Pvt.	19	Su	0500	4-wheel		Yes	CA	M		
PFC	21	We	1400	4-wheel			NC	F		
SSgt.	28	We	1400	4-wheel			NC	M		
GySgt.	40	Su	1100	4-wheel	No		SC	M		
Sgt.	24	Mo	1600	MC			CA	M		
MSgt.	39	Tu	2400	4-wheel		Yes	GA	M		
Pvt.	20	Su	2000	4-wheel	No		FL	M		
Cpl.	22	Su	2200	MC	No		HI	M		
PFC	19	Sa	0400	4-wheel		Yes	NC	M		
Cpl.	22	Su	0500	4-wheel	No	Yes	NY	M		
Sgt.	28	Su	0800	4-wheel	No		AZ	M	Yes	Yes
LCpl.	21	We	2400	4-wheel			TN	M		
PFC	19	Th	0400	4-wheel			FL	M	Yes	
Cpl.	21	Th	1500	4-wheel			NY	M		
Cpl.	25	Su	0300	4-wheel	No	Yes	NC	M		
LCpl.	28	Fr	2200	4-wheel	No		NC	M		Yes
Cpl.	27	Su	1400	4-wheel			CA	M		Yes
GySgt.	36	Fr	2400	4-wheel	No	Yes	NC	M	Yes	
Cpl.	24	Th	0200	4-wheel	No	Yes	MI	M		Yes
LCpl.	20	Su	0800	4-wheel	No		NC	M	Yes	Yes
LCpl.	21	Fr	0700	4-wheel			VA	M	Yes	
PFC	18	Mo	2300	4-wheel	No	Yes	FL	M	Yes	
LCpl.	20	Mo	2000	4-wheel			NC	F		
LCpl.	21	Tu	1900	MC			CA	M		
PFC	23	Sa	0700	4-wheel	Unknown	Drugs	CA	M	Yes	
LCpl.	20	Tu	0600	4-wheel			NC	M		
LCpl.	19	Sa	0600	4-wheel		Yes	CA	M		
LCpl.	24	Su	0300	4-wheel	No		WS	M		
LCpl.	19	Th	2200	4-wheel	No		NC	M		
Sgt. Maj.	45	Sa	1900	MC	No	Yes	SC	M		
LCpl.	20	Su	0600	4-wheel	No	Yes	CA	M	Yes	
LCpl.	21	Mo	1500	4-wheel		Unknown	SC	M		
LCpl.	27	Tu	2400	4-wheel	No		NC	M		Yes
LCpl.	20	Tu	0600	4-wheel			NC	M		
LCpl.	24	Tu	0600	4-wheel			NC	M		
LCpl.	26	Th	2300	MC			CA	M		
LCpl.	22	Su	2000	4-wheel	No	Yes	NC	M		
LCpl.	21	Mo	0500	4-wheel		Yes	GA	M		
PFC	21	Tu	0400	4-wheel		Yes	AL	M	Yes	
LCpl.	22	Su	0200	4-wheel		Yes	CA	M		Yes
DT3	21	Tu	0600	4-wheel		Yes	CA	M		
LCpl.	22	Sa	0100	MC		Yes	HI	M		
PFC	19	Sa	0400	4-wheel			PA	M	Yes	
Sgt.	28	Fr	1700	4-wheel			PA	M		
Cpl.	20	Sa	0700	4-wheel			WV	M		
LCpl.	22	Sa	2400	Ped		Yes	NC	M		
SSgt.	27	We	1500	4-wheel	No		FL	M		
LCpl.	20	Fr	2300	MC	No	Yes	LA	M		
Sgt.	23	Su	0300	Ped		Yes	NC	M		
PFC	21	Sa	0300	4-wheel			MS	M		
PFC	21	Sa	0300	4-wheel			MS	M		



# THE PROBLEM.....





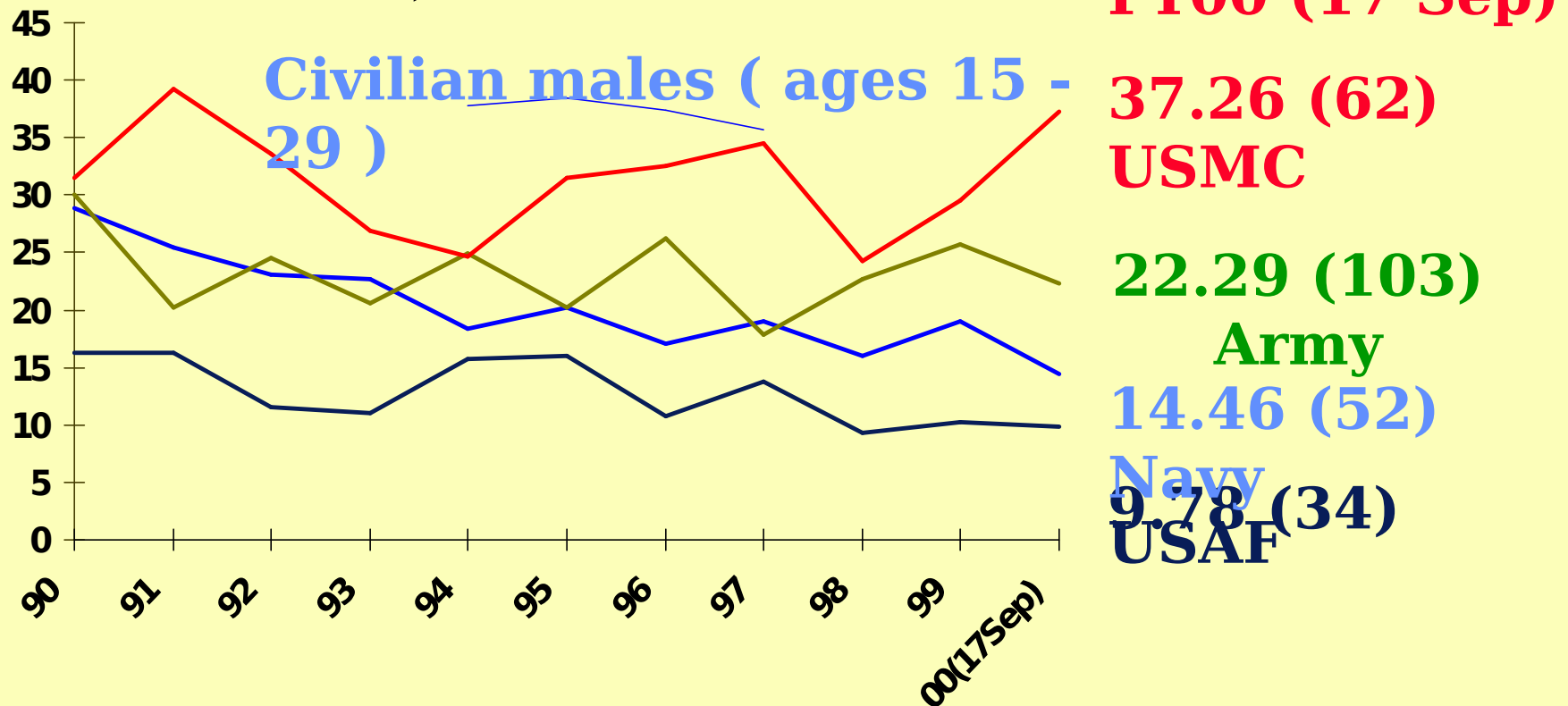








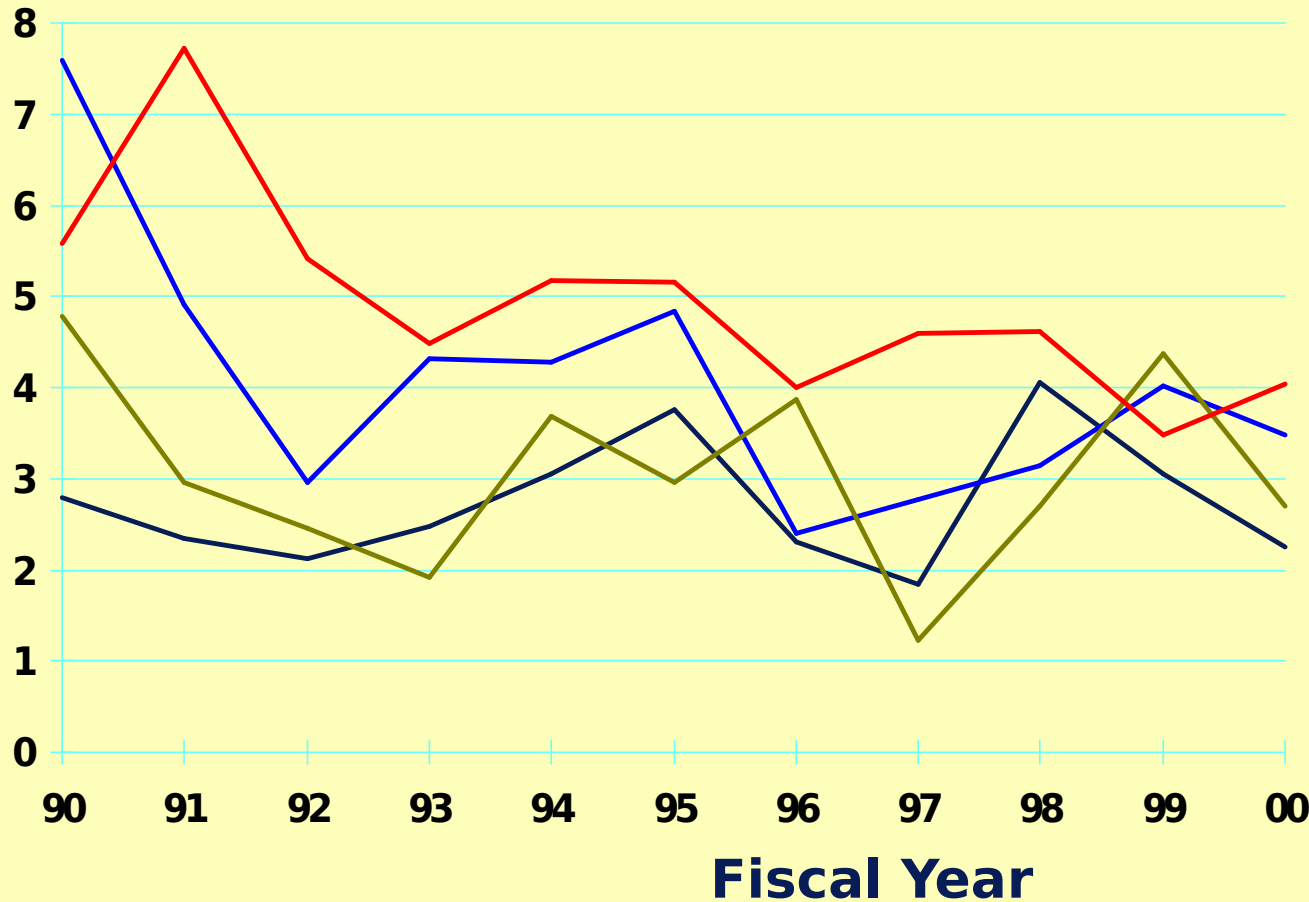
# Traffic Death Rates (Per 100,000 Personnel)



**Fiscal Year**

**Includes passengers, motorcycle riders, pedestrians and bicyclists (struck by vehicle).**

# Motorcycle Death Rates All Services



**FY 00**

**4.04 (7)**

**3.48 (13)**

**2.70 (13)**

**2.25 (9)**

**USAF**

**Includes motorcycle drivers and passengers**

**Deaths per 100,000 population (estimated = per 10,000**



# Marine Corps

## Fatal Factors in FY 98-00

### Traffic Deaths

Percentage  
of Mishaps

100

75

50

25

0



**155  
DEAD!  
!**

Fatigue: 24%

**54%**

**61%**

**46%**

**32%**

**41%**

**Weekend  
Speeding**

**Night**

**No Seat Belt**

**Alcohol**

3013M



# POV Deaths 98 - 00

## Marine Corps

FY98	FY99	FY00	Total
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42	51	62	155
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95 of them died at night

84 died on the weekend

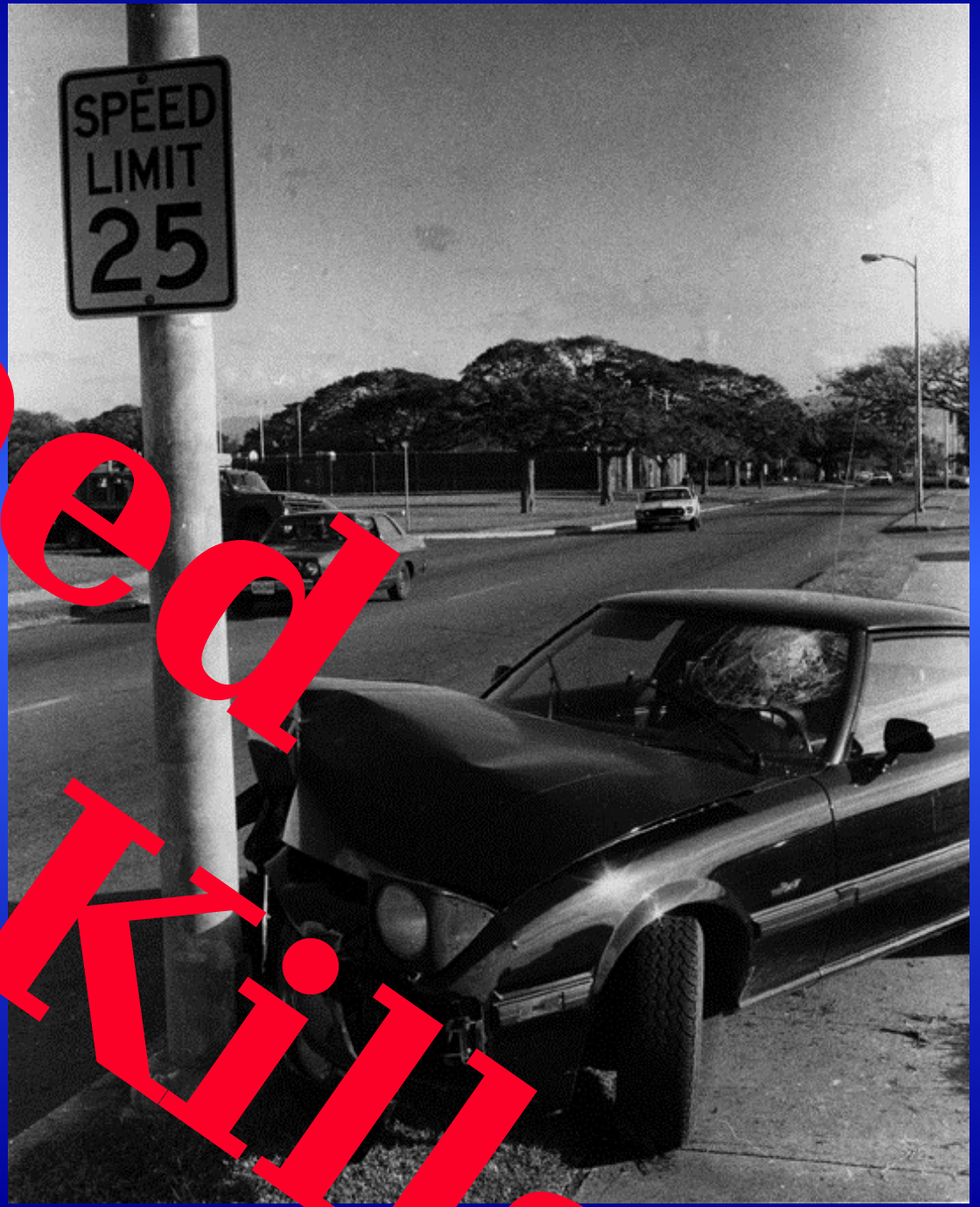
58 weren't wearing a safety belt

60 of them died in a speeding vehicle

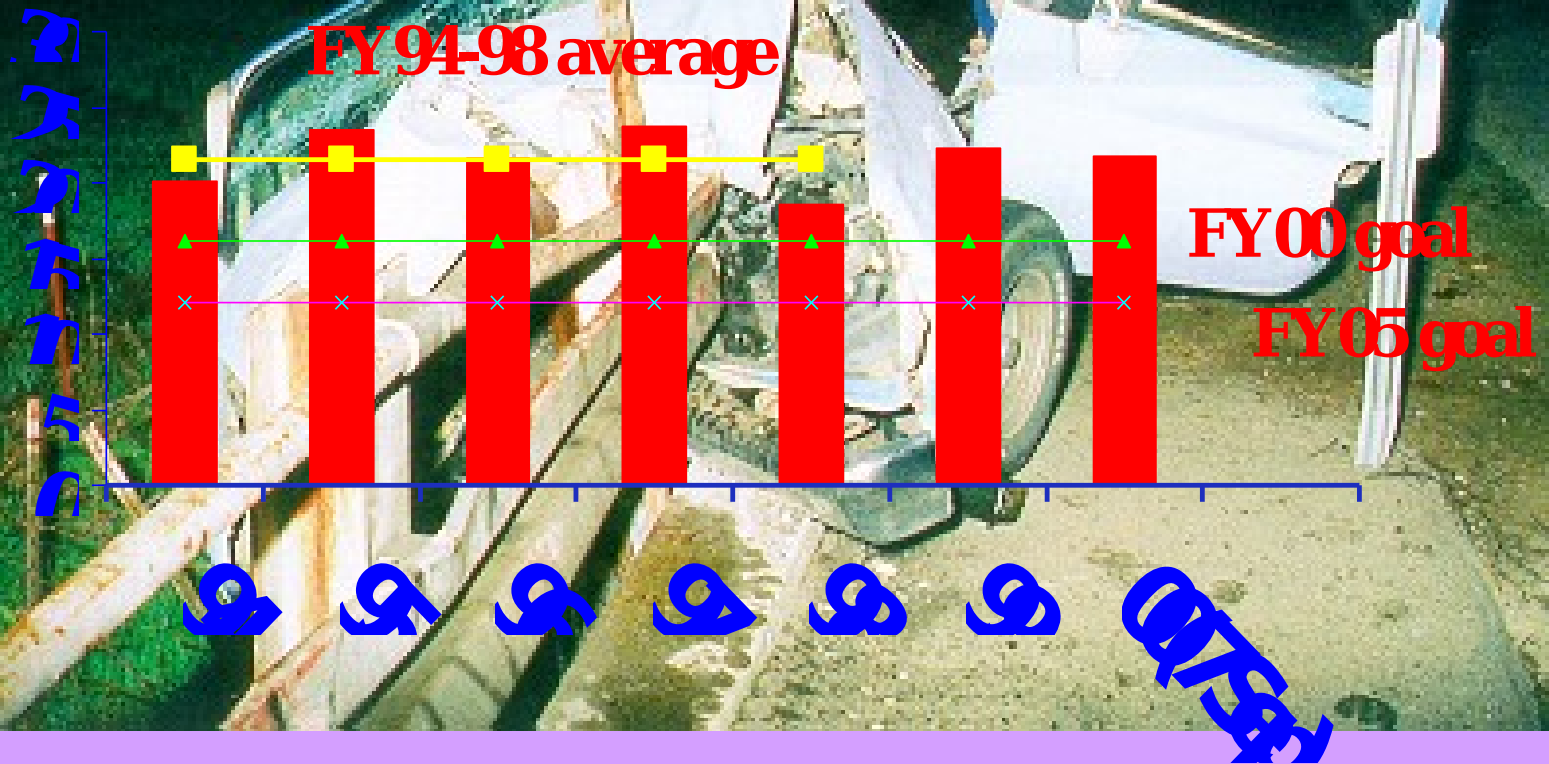
50 died because of drinking

35 were killed by fatigued drivers

Speed  
Killing



# Fighting the Navy and Marine Corps Top Killer



\* Leadership  
\* Education

\* Accountability  
\* Safe Communities





**Seatbelts Work...  
Fact or Fiction?**

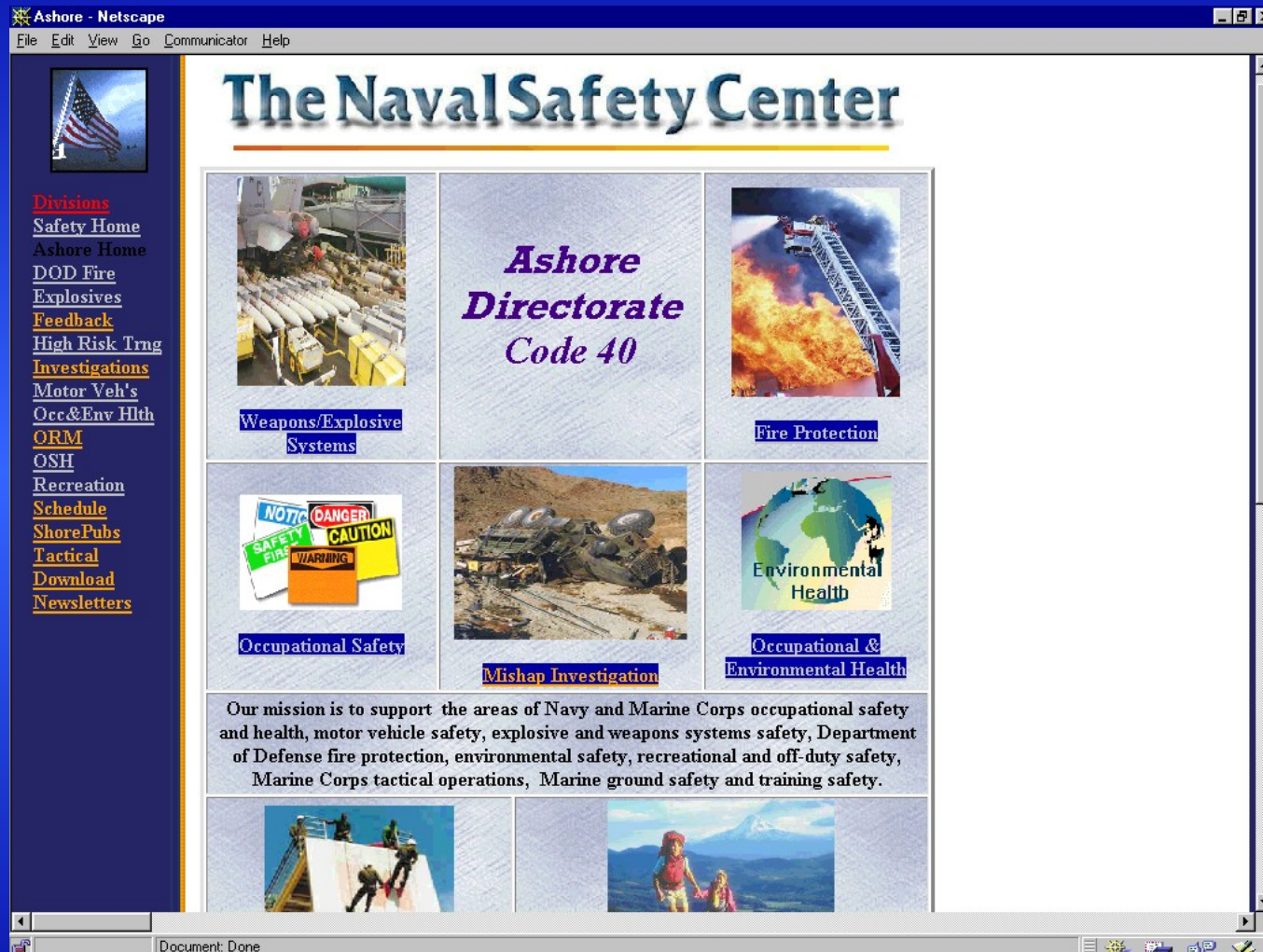
# TRAVEL TIPS FOR SAFE DRIVERS

1. Don't drink and drive.
2. Use a Designated driver.
3. Wear seatbelts.
4. Obey the speed limit.
5. Don't drive when you are tired.
6. Take frequent rest breaks.
7. Adjust speed for conditions
8. Don't follow too close.
9. Maintain your vehicle.
10. Drive defensively.

ARRIVE ALIVE!



# Our World Wide Web



Home Web Page Address:

[www.safetycenter.navy.mil](http://www.safetycenter.navy.mil)



# *Operational Risk Management*



## **What is ORM?**

***A **process** to assist you in performing everyday tasks on and off duty **safely** and efficiently! Modify the process to fit the situation while still identifying and assessing risks and developing controls to reduce the hazards.***



# *REFERENCE*



*MCO 3500.27*





“ My intent is to apply ORM throughout the entire Marine Corps. ORM will be integrated into our academic, leadership, tactical and operational regimens. Our goal is to institutionalize the ORM process so that all Marines apply it -- as a matter of course -- in their planning, training and operations. To that end, Commanders shall incorporate ORM into their operational routines.”

-GEN C. C. Krulak, USMC (RET)



# ***COST OF MARINE AND NAVY MISHAPS***

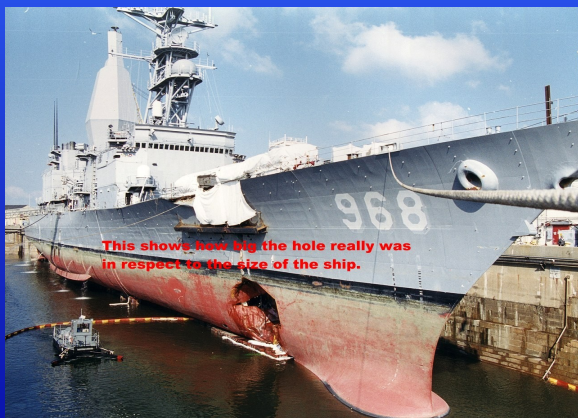


**FY 95-99**

**\$4 billion**

**1,045 deaths**

**9,200 injuries**



**86% of all mishaps are related to human error -**

**ORM can bring numbers down**





# *CHARACTERISTICS* *OF RISK*



**Risk is always present**

**Risk can be managed**

**Risk is shared**

**Perceived risk differs from actual  
risk**



# **ELEMENTS** **OF ORM**



**□ 3 Levels of Application**

**□ 4 Principles**

**□ 5 Steps**



# **3 LEVELS OF APPLICATION**



## **1= TIME CRITICAL**

(90% of the ORM processes are “On The Run”)

## **2= DELIBERATE**

(Complete 5 step process)

## **3= IN DEPTH**

(Other considerations outside the local chain of command)



# **4 PRINCIPLES**



- 1. ACCEPT RISKS WHEN BENEFITS OUTWEIGH THE COSTS**
- 2. ACCEPT NO UNNECESSARY RISK**
- 3. ANTICIPATE & MANAGE RISK BY PLANNING**
- 4. MAKE RISK DECISIONS AT THE RIGHT LEVEL**



# *5 STEPS*



- 1. Identify hazards**
- 2. Assess hazards**
- 3. Make risk decisions**
- 4. Implement controls**
- 5. Supervise**





# *SUMMARY*



**ORM is a process ... NOT a program**

**Decision making tool to:**

- \* Increase ability to make informed choices**
- \* Reduce risks to acceptable level**

**ORM must become an inherent way of doing business**



# 2000 HOLIDAY FATALITY FORECASTS MOTOR VEHICLE DEATHS USMC

PREDICTED    DEATHS

MEMORIAL DAY	2	1	
4TH OF JULY	1	2	
LABOR DAY		1	3
THANKSGIVING	1	?	
CHRISTMAS		2	?
NEW YEAR'S	1	?	



# *ORM POC*



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**On the web: [www.safetycenter.navy.mil](http://www.safetycenter.navy.mil)**